

#### General features



Disclaimer:  
Images are purely  
indicative. The features  
and the accessories of the  
products may differ  
according to model and  
application.

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Temperature range</b>                        | Chamber A adjustable between +2°C / +15°C<br>Chamber B adjustable between -10°C / -20°C                                                                                                                                                                                                                                                                                                   |
| <b>Factory setpoint   Increment</b>             | +5°C   0.1°C chamber A<br>-20°C   0.1°C chamber B                                                                                                                                                                                                                                                                                                                                         |
| <b>Ambient working class   Climatic class</b>   | From +10°C to +25°C   C                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Nominal capacity</b>                         | 250 + 250 lt (8,82 + 8,82 cu ft)                                                                                                                                                                                                                                                                                                                                                          |
| <b>Gross capacity   Net capacity</b>            | 249 + 261 lt (8,80 + 9,22 cu ft)   249 + 230 lt (8,80 + 8,13 cu ft)                                                                                                                                                                                                                                                                                                                       |
| <b>External dimensions (WxDxH)</b>              | 72x76x208                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Internal dimensions (WxDxH)</b>              | 60x58,8x70 / 60x58,8x74 cm                                                                                                                                                                                                                                                                                                                                                                |
| <b>Net weight without any internal fittings</b> | 168 kg                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Package dimensions   Weight</b>              | Cardboard on pallet 76x81x220 cm   weight 182 kg<br>Wooden crate on pallet 84x85x220 cm   weight 194 kg                                                                                                                                                                                                                                                                                   |
| <b>Structure</b>                                | Monocoque type, made of plasticized, non-toxic white steel interior/exterior, coated with a special antibacterial-type film. Rounded corners and tray-type inner bottom.                                                                                                                                                                                                                  |
| <b>Insulation type</b>                          | High-density (43 kg/m <sup>3</sup> ), in-walls injected PUF, without any CFC, water-foam based.                                                                                                                                                                                                                                                                                           |
| <b>Insulation thickness</b>                     | 75 mm rear / 60 mm sides                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Feet</b>                                     | No.4 unidirectional rollers + No.2 stabilizing feet                                                                                                                                                                                                                                                                                                                                       |
| <b>Door</b>                                     | No.2 doors made of tempered and low emissivity glass, self-closing thanks to the spring hinge and 90°stop position.                                                                                                                                                                                                                                                                       |
| <b>Lightning</b>                                | Full LED, all length of inner chamber, automatic switching on at door opening or from the display when the door is closed.                                                                                                                                                                                                                                                                |
| <b>Internal fittings</b>                        | Customizable and height adjustable, it can mix independently: <ul style="list-style-type: none"> <li>• wire shelves supported by adjustable clips (dim.cm 56x55)</li> <li>• fully extractable drawers made of aluminium, with dividers (WxDxH): cm 15x50x7,5 (nr 3 compartments)</li> <li>• fully extractable drawers made of aluminium, without dividers(WxDxH): cm 49x50x7,5</li> </ul> |
| <b>Suggested internal fittings</b>              | No. 4 wire shelves (2 + 2)                                                                                                                                                                                                                                                                                                                                                                |

#### Refrigeration system

|                      |                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Refrigeration</b> | Professional, ventilated, forced, hermetic compressor type.<br>No. 2 separate and independent cooling systems, one for each compartment. |
| <b>Defrost</b>       | Automatic, adaptive, including condensate water vaporisation                                                                             |
| <b>Refrigerant</b>   | Natural R290                                                                                                                             |
| <b>GWP   ODP</b>     | 3   0                                                                                                                                    |

## Electronic controller



|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Controller</b>                                | ECT-F PLUS controller                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Type of controller</b>                        | Electronic controller, back-lit alphanumeric LCD display and resolution 0,1°C                                                                                                                                                                                                                                                                                                                                                   |
| <b>Power switch</b>                              | Integrated in user's interface                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Security features</b>                         | Settable user password<br>Visual and acoustic for temperature alarms and failures such as: <ul style="list-style-type: none"> <li>• Open door</li> <li>• High temperature</li> <li>• High temperature caused by power failure.</li> <li>• Low temperature</li> <li>• Power failure (alarm back up up to 48h)</li> <li>• Clogged condenser</li> <li>• Faulty batteries</li> <li>• Any functional failure/faulty parts</li> </ul> |
| <b>Alarm system</b>                              |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Data and event recordings</b>                 | Last 12 events available on the display                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Settable temperature alarm limits</b>         | Yes, through parameter adjustment                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Control sensors</b>                           | NTC type probes                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Connection for remote alarm signalisation</b> | Ready on the board, remote on request                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Temperature recording</b>                     | Log of minimum and maximum temperature reached, manual reset                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Data export</b>                               | Not available                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Electrical and functional data

|                                             |                                                                           |
|---------------------------------------------|---------------------------------------------------------------------------|
| <b>Standard power supply</b>                | 230V / 1ph / 50Hz                                                         |
| <b>Standard plug type</b>                   | Schuko type "G"                                                           |
| <b>Compressor protection</b>                | Overload Protector included                                               |
| <b>Power absorption/current</b>             | kW 0,17 + 0,32 (Amp 1 + 2,3)                                              |
| <b>Inrush current</b>                       | Amp 3 + 5                                                                 |
| <b>Noise level</b>                          | <50 dBA                                                                   |
| <b>Heat emission according to EN 12900</b>  | W 229                                                                     |
| <b>Hold over time at 20°C ambient (air)</b> | 3,4 h chamber A (from +5°C to +15°C)<br>2 h chamber B (from -20°C to 0°C) |
| <b>Energy consumption at 20°C ambient</b>   | 5,5 kWh/24h                                                               |

## Conformity

|                                   |                                                                                                                                                                                                                                                                                   |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Directives and regulations</b> | Directive 2006/42/EC (Machine directive)<br>Directive 2011/65/EC (ROHS II)<br>Directive 2015/863/ EC (ROHS III)<br>Directive 2012/19/EC (RAEE)<br>Directive 2014/30/EC (EMC)<br>Directive 2014/35/EC (LVD)<br>Regulation (EU) 517-2014 (F-gas)<br>Regulation (EU) 1907-2006_REACH |
| <b>Available certificate</b>      | CE                                                                                                                                                                                                                                                                                |
| <b>Application environment</b>    | Non-flammable, non-explosive, non-corrosive, with adequate air exchange                                                                                                                                                                                                           |

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## Accessories available on request

|                                                                |                                                                                                                                |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Lock with key                                                  |                                                                                                                                |
| External dry contact                                           |                                                                                                                                |
| Anty-freeze safety                                             |                                                                                                                                |
| DIN 13277 conformity (includes anty-freeze safety)             | Includes: anti-freezer safety, key lock, buffer batteries for power failure alarm and external terminal board with dry contact |
| Additional wire shelf kit                                      |                                                                                                                                |
| Extractible drawer on telescopic slides                        |                                                                                                                                |
| Extractible drawer without inner dividers on telescopic slides |                                                                                                                                |
| Lockable drawer for narcotics                                  |                                                                                                                                |
| Rack 140x420x150H mm (max 3 per each shelf)                    |                                                                                                                                |
| Plexiglas front panel for extractible drawer                   |                                                                                                                                |
| Castors kit with brakes                                        |                                                                                                                                |
| Inner socket (no.1)                                            |                                                                                                                                |
| 35mm access port with stopper (no.1)                           |                                                                                                                                |
| Port hole mm 15 (no.1)                                         |                                                                                                                                |
| No.1 humidity sensor                                           |                                                                                                                                |
| No.1 PT100 sensor with free contacts                           |                                                                                                                                |
| Non-standard plug and cable                                    |                                                                                                                                |
| Power 220V/60Hz                                                |                                                                                                                                |
| Power 115V/60Hz                                                |                                                                                                                                |
| Mains voltage stabilizer                                       |                                                                                                                                |
| Wooden crate package                                           |                                                                                                                                |

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